RUDRAPRASAD CONSULTANTS

AME OF WORK: Package-3, includes 4 works of Rs.200.00 Lakhs

1. *Improvements to roads and drains of Chiranjeevi layout extension and surrounding areas in ward No.07, Byatarayanapura*
2. *Improvements to roads and drains of Mariyannapalya and surrounding areas in ward No.07, Byatarayanapura*
3. *Improvements to roads and drains of Gopalappa Layout and chinnappa Layout in ward No.07, Byatarayanapura*
4. *Improvements to roads and drains of Hotteppa Layout, Khasinagara and surrounding areas in ward No.07, Byatarayanapura*

SECOND AND FINAL QC REPORTS SUBMITTED TO B.B.M.P, BANGALORE

#3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526 Web: www.arkstructure.com e-mail: rechan6630@yahoo.co.in

QC ABSTRACT

NAME OF WORK: Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	
		Yield Test	One Test		1	
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /0-5 cum	13.08	4	4
9	RMC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	41.03	8	8
10	Cement Concrete Pavemet (M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	52.5	8	8
11	WMM	Sieve Analysis	One Test		1	1
		Impact Valu	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1

Abhilash.N.D
AE(Mat)

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 31-08-19**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
Date of Receipt	:	28-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	29-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(L-1)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 26-09-19**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas i Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
Date of Receipt	:	28-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	29-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

AE(Ay)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 31-08-19**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
Date of Receipt	:	28-08-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Dy. H.M.L.N.D
AE(L-2)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 28-08-19

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 28-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS *383:2016*
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

AE(h-2)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka B.B.M.P.
Bangalore.

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End of Report

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 28-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 28-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(RZ)
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-RW-2019-10-12-21** **Date: 31-08-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 30-08-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 30-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

End of Report

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

ab ID	:	**CP-RW-2019-10-12-21** **Date: 17-09-19**
roject Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
gency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
stomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
te of Receipt	:	13-09-19
mple Type /Size	:	Precast Cover Slab(200 mm)
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
te of test	:	13/09/2019

	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
	Cover Slab-1	175.51	200.48	2.816	24189	180.9	7.5	7.0	8.7
	Cover Slab-2	175.49	200.52	2.822	24183	182.3	7.5	7.0	8.8
	Cover Slab-3	175.50	200.51	2.718	24186	181.5	7.5	7.0	8.7

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, G.B.M.P.
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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

) ID	:	**CP-RW-2019-10-12-21** **Date: 30-09-19**
ject Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	26-09-19
ple Type /Size	:	Precast Cover Slab(100 mm)
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of test	:	26/09/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.52	100.49	1.118	4478	80.8	18.0	16.8	21.0
Cover Slab-2	75.48	100.51	1.124	4474	82.5	18.4	17.2	21.4
Cover Slab-3	75.51	100.52	1.218	4477	81.7	18.2	17.0	21.2

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(WZ)

Assistant Executive Engineer
Rajagopal Sub Division,
Yelahanka Zone, B.B.M.P,
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 12/09/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 07-09-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/09/2019	12/09/2019	151.12 X 150.43 X 150.83	22734	**8.779**	278.3	12.2	12.4
2	Culvert Concrete	M15	05/09/2019	12/09/2019	150.36 X 151.89 X 150.05	22838	**8.180**	286.5	12.5	
3	Culvert Concrete	M15	05/09/2019	12/09/2019	149.30 X 150.15 X 151.63	22417	**8.258**	277.8	12.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 03/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 07-09-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/09/2019	03/10/2019	150.09 X 151.92 X 150.40	22802	**8.912**	398.2	17.5	17.3
2	Culvert Concrete	M15	05/09/2019	03/10/2019	149.96 X 150.51 X 149.79	22570	**8.182**	385.6	17.1	
3	Culvert Concrete	M15	05/09/2019	03/10/2019	150.10 X 151.71 X 149.88	22772	**8.369**	395.2	17.4	

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R KARTHIK RECHAN
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Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 12/09/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 07-09-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/09/2019	12/09/2019	151.73 X 150.88 X 149.42	22894	**8.779**	284.7	12.4	12.7
2	Culvert Concrete	M15	05/09/2019	12/09/2019	151.21 X 149.96 X 149.10	22676	**8.180**	291.1	12.8	
3	Culvert Concrete	M15	05/09/2019	12/09/2019	149.20 X 150.60 X 151.94	22469	**8.258**	286.1	12.7	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(L-7)

Assistant Executive Engineer
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Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/10/2019

Lab ID : **CP-RW-2019-10-12-21**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 07-09-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/09/2019	03/10/2019	150.75 X 149.38 X 149.52	22519	**8.912**	405.3	18.0	17.8
2	Culvert Concrete	M15	05/09/2019	03/10/2019	150.62 X 151.32 X 151.42	22791	**8.182**	400.2	17.6	
3	Culvert Concrete	M15	05/09/2019	03/10/2019	150.74 X 149.34 X 150.59	22512	**8.369**	399.9	17.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 30/09/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	150.36 X 151.35 X 150.08	22757	**8.286**	415.4	18.3	18.2
2	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	151.77 X 151.04 X 150.04	22923	**8.897**	418.9	18.3	
3	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	150.97 X 151.24 X 149.69	22832	**8.077**	414.2	18.1	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Ashaly.N.D
AE(RW)

Assistant Executive Engineer
Kodigehalli Sub Division,
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CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 07/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	149.83 X 149.84 X 150.97	22450	**8.286**	411.0	18.3	19.1
2	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	150.90 X 149.24 X 149.13	22520	**8.897**	412.7	18.3	
3	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	151.43 X 150.26 X 150.34	22754	**8.077**	422.8	18.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer.
Kodigehalli Sub Division,
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Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 21/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	149.76 X 149.19 X 149.13	22342	**8.603**	515.5	23.1	23.2
2	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.47 X 149.64 X 151.56	22666	**8.195**	516.7	22.8	
3	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	150.16 X 151.62 X 151.52	22768	**8.849**	537.8	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 30/09/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	150.41 X 149.14 X 151.20	22432	**8.286**	416.9	18.6	18.3
2	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	151.78 X 150.43 X 150.81	22832	**8.897**	414.4	18.2	
3	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	151.87 X 149.52 X 151.62	22707	**8.077**	410.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 07/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	150.93 X 151.57 X 150.69	22877	**8.286**	424.3	18.5	20.3
2	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	150.85 X 151.84 X 150.34	22905	**8.897**	432.0	18.9	
3	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	151.07 X 150.02 X 150.12	22664	**8.077**	410.9	18.1	

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Quality Manager

A.H.M.L.-N.D
AE(A-I)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 21/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.63 X 150.25 X 152.00	22783	**8.603**	527.1	23.1	23.0
2	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.50 X 151.77 X 149.65	22994	**8.195**	515.3	22.4	
3	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.47 X 150.63 X 149.10	22815	**8.849**	535.5	23.5	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(NH) Assistant Executive Engineer
Kodigehalli Sub Division,
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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 07/10/2019**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
Date of Receipt	:	25-09-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 14 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	149.96 X 151.60 X 151.24	22734	**8.286**	421.7	18.5	19.1
2	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	150.24 X 151.65 X 150.03	22784	**8.897**	425.8	18.7	
3	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	149.55 X 149.77 X 151.04	22398	**8.077**	405.8	18.1	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 21/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	150.90 X 150.97 X 150.64	22782	**8.603**	539.9	23.7	23.4
2	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.14 X 151.40 X 150.58	22884	**8.195**	521.8	22.8	
3	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.07 X 150.64 X 150.72	22758	**8.849**	540.9	23.8	

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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 30/09/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	149.01 X 150.63 X 150.47	22445	**8.286**	406.5	18.1	18.4
2	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	151.85 X 149.13 X 151.67	22646	**8.897**	425.2	18.8	
3	Cement Concrete Pavement	M20	23/09/2019	30/09/2019	150.28 X 151.75 X 149.96	22806	**8.077**	416.4	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 07/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 14 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	149.73 X 151.84 X 150.29	22735	**8.286**	430.9	19.0	20.1
2	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	149.78 X 150.27 X 149.32	22508	**8.897**	405.7	18.0	
3	Cement Concrete Pavement	M20	23/09/2019	07/10/2019	150.60 X 150.11 X 150.70	22606	**8.077**	419.0	18.5	

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AE(N-W) Assistant Executive Engineer Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 21/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 25-09-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	150.43 X 149.04 X 150.72	22421	**8.603**	527.4	23.5	23.2
2	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	149.54 X 149.88 X 151.15	22413	**8.195**	506.2	22.6	
3	Cement Concrete Pavement	M20	23/09/2019	21/10/2019	151.93 X 150.68 X 151.42	22892	**8.849**	536.5	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 24/09/2019**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
Date of Receipt	:	18-09-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	151.69 X 151.57 X 150.65	22992	**8.286**	429.5	18.7	18.4
2	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	151.85 X 151.28 X 151.21	22972	**8.897**	415.4	18.1	
3	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	152.00 X 149.81 X 150.36	22771	**8.077**	418.0	18.4	

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CIVIL Pro Sig..... Date..... BANGALORE

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